

**ABSTRACT**

A base-station transceiver system (BTS) operative in a cellular telephone network, consisting of a main up-link port and a diversity up-link port which are adapted to operate cooperatively to receive up-link signals over-the-air from cellular telephones such that both of the ports receive the up-link signals from each of the cellular telephones. The two ports are coupled to receive signals from wired telephones, such that the main up-link port receives signals only from a first group of the wired telephones and the diversity up-link port receives signals only from a second group of the wired telephones. The system also includes signal processing circuitry which is adapted to receive the signals from the up-link ports and convey the signals over the network.